

# MATERIAL SAFETY DATA SHEET

## PRODUCT IDENTIFICATION

NAME D12 - 10  
NSN 9150-00-179-5145

## GENERAL INFORMATION

MANUFACTURER'S NAME JOINT OIL ANALYSIS PROGRAM TECHNICAL SUPPORT CENTER  
TELEPHONE NUMBER (850) 452-5627  
**EMERGENCY TELEPHONE NUMBER 1-800-851-8061**  
ADDRESS JOAP-TSC  
85 MILLINGTON AVENUE  
PENSACOLA, FL 32508-5010  
SPECIFICATION MIL-L-6082, GRADE 1100  
CHEMICAL FAMILY HYDROCARBONS  
DATE PREPARED DECEMBER, 2001

## INGREDIENTS INFORMATION

COMPONENTS	PERCENTAGE	
BASE OIL	99.51%	
STABILIZER	0.48%	
ALKYLAMINE ALKYLARYL SULFONATE	≤.014 %	
TRACE ELEMENTS		
IRON	Fe	10 ± 1.5 ppm
SILVER	Ag	10 ± 1.5 ppm
ALUMINUM	Al	10 ± 1.5 ppm
CHROMIUM	Cr	10 ± 1.5 ppm
COPPER	Cu	10 ± 1.5 ppm
MAGNESIUM	Mg	10 ± 1.5 ppm
SODIUM	Na	10 ± 1.5 ppm
NICKEL	Ni	10 ± 1.5 ppm
LEAD	Pb	10 ± 1.5 ppm
SILICON	Si	10 ± 1.5 ppm
TIN	Sn	10 ± 1.5 ppm
TITANIUM	Ti	10 ± 1.5 ppm

## PERSONAL PROTECTION INFORMATION

VENTILATION Use with adequate ventilation to control exposure to below recommended levels.  
OSHA PEL and ACGIH TLV for oil mists are 5 mg/m<sup>3</sup>.  
RESPIRATORY Not generally required.  
EYE PROTECTION Safety glasses with side shields or splash goggles  
SKIN Gloves and protective garments to prevent skin contact.  
Avoid contact with eyes, skin or clothing.  
Avoid breathing vapors, mist, fumes or dust.  
Material can cause gangrene if pressure injected under the skin.  
These recommendations are based on normal uses and conditions. Expert assistance, such as an industrial hygienist, should be sought if unusual or special conditions exist.

## HANDLING AND STORAGE

Store in closed containers.  
Store in well-ventilated area.  
Do not store near oxygen and/or strong oxidizing agents.

**REACTIVITY**

STABILITY	Stable
MATERIALS TO AVOID	Oxygen and strong oxidizing agents
HAZARDOUS POLYMERIZATION	Will not occur
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon oxides, various hydrocarbons and oxides and other compounds of the metals present

**HEALTH HAZARDS**

EXPOSURE LIMITS	OSHA PEL and ACGIH TLV for oil mists are 5 mg/m <sup>3</sup>
EFFECTS OF OVEREXPOSURE	Pressurized injection of material under the skin can lead to seriously inflamed tissue. If left untreated, the injury may become gangrenous. Prolonged and repeated exposure to oil mists poses a risk of pulmonary disease such as lung inflammation. Continuous skin contact with used motor oils has caused skin cancer in laboratory animals. 29CFR1910.1025 requires employee notification of lead present in the work place. All compounds containing heavy metals should be handled carefully.

**FIRST AID and EMERGENCY**

EYES	Flush eyes with water for fifteen (15) minutes
SKIN	Wash with soap and water
INHALATION	Remove from source
INGESTION	<b>DO NOT</b> induce vomiting, <b>SEEK MEDICAL ASSISTANCE</b>

In all cases, if irritation or adverse symptoms develop, **SEEK MEDICAL ASSISTANCE**

**PHYSICAL DATA**

APPEARANCE	AMBER TO DARK LIQUID
ODOR	MILD
BOILING POINT	> 600° F (> 316° C)
VAPOR PRESSURE	< 1 mm Hg @ 68° F (20° C)
VAPOR DENSITY (AIR = 1)	> 1
SOLUBILITY IN WATER	NEGLIGIBLE
SPECIFIC GRAVITY (WATER = 1)	0.86 - 0.89 @ 60° F (16° C)
PERCENT VOLATILE BY VOLUME	NEGLIGIBLE
EVAPORATION RATE	NEGLIGIBLE

**FIRE and EXPLOSION DATA**

FLASH POINT	> 385° F (195° C)
EXTINGUISHING MEDIA	DRY CHEMICAL, FOAM OR CARBON DIOXIDE
HAZARDS	CARBON OXIDES AND VARIOUS HYDROCARBONS ARE FORMED WHEN BURNED.

**TRANSPORTATION**

MATERIAL IS NOT REGULATED

**DISPOSAL AND REGULATORY INFORMATION**

MATERIAL IS SOLD AS A CHEMICAL ANALYTICAL STANDARD FOR LABORATORY USE.

DO NOT ALLOW MATERIAL TO ENTER SURFACE WATERS OR SANITARY SEWER SYSTEM.

THIS MATERIAL CONTAINS METALS LISTED IN 40 CFR 261.24 TOXICITY CHARACTERISTICS AND SHOULD BE TESTED AS DESCRIBED IN SECTION 261.24(A). IF THE MATERIAL FAILS THE TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP), THEN IT MUST BE MANAGED AND DISPOSED OF AS A HAZARDOUS WASTE IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.

CERCLA/SUPERFUND - THIS MATERIAL IS NOT KNOWN TO CONTAIN HAZARDOUS SUBSTANCES IN

SUFFICIENT QUANTITY TO MAKE IT SUBJECT TO CERCLA REGULATIONS